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import 'dart:io';

void main() {
  List<Map<String, double>> incomeList = [];
  List<Map<String, double>> expenseList = [];

  while (true) {
    print("\nBudget Management Menu:");
    print("1. Add income");
    print("2. Add expense");
    print("3. View net profit or loss");
    print("4. Exit");
    stdout.write("Choose an option (1-4): ");

    String? input = stdin.readLineSync();
    if (input == '4') {
      print("Exiting...");
      break;
    }

    switch (input) {
      case '1':
        stdout.write("Enter income description: ");
        String? incomeDesc = stdin.readLineSync();
        stdout.write("Enter income amount: ");
        String? incomeAmountStr = stdin.readLineSync();
        double? incomeAmount = double.tryParse(incomeAmountStr!);
        if (incomeAmount != null && incomeAmount > 0) {
          incomeList.add({incomeDesc!: incomeAmount});
          print("Income added: $incomeDesc - \${incomeAmount.toStringAsFixed(2)}");
        } else {

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        print("Invalid amount! Please enter a positive number.");
    {
        break;
    case '2':
        stdout.write("Enter expense description: ");
        String? expenseDesc = stdin.readLineSync();
        stdout.write("Enter expense amount: ");
        String? expenseAmountStr = stdin.readLineSync();
        double? expenseAmount = double.tryParse(expenseAmountStr!);
        if (expenseAmount != null && expenseAmount > 0) {
            expenseList.add({expenseDesc!: expenseAmount});
            print("Expense added: $expenseDesc - \${expenseAmount.toStringAsFixed(2)}");
        }
        else {
            print("Invalid amount! Please enter a positive number.");
        }
        break;
    case '3':
        double totalIncome = incomeList.fold(0, (sum, item) => sum + item.values.first);
        double totalExpenses = expenseList.fold(0, (sum, item) => sum + item.values.first);
        double netProfit = totalIncome - totalExpenses;

        print("\nBudget Summary:");
        print("Total income: \${totalIncome.toStringAsFixed(2)}");
        print("Total expenses: \${totalExpenses.toStringAsFixed(2)}");
        if (netProfit >= 0) {
            print("Net profit: \${netProfit.toStringAsFixed(2)}");
        }
        else {
            print("Net loss: \${(-netProfit).toStringAsFixed(2)}");
        }
        break;
    default:

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print("Invalid option! Please choose between 1-4.");
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